

Approved Drugs for Use in Aquaculture





		FLORFENICOL		
Product name & supplier	Species	Indication	Dosing	Limitations & comments
AQUAFLOR® Intervet/Schering-Plough Animal Health Corp. 1-800-521-5767		Control of mortality due to enteric septicemia associated with Edwardsiella ictaluri	• 10 mg florfenicol	 Veterinary Feed Directive (VFD) drug 12-day withdrawal time
	Catfish	Control of mortality due to columnaris disease associated with Flavobacterium columnare (Conditional Approval)	per kg fish per day for 10 days	 VFD drug 12-day withdrawal time Must use AQUAFLOR®-CA1 product
	Erochwater reared	Control of mortality due to furunculosis associated with Aeromonas salmonicida hwater-reared Control of mortality due to coldwater disease associated with F. psychrophilum	- • 10 mg florfenicol	VFD drug15-day withdrawal time
	salmonids		per kg fish per day for 10 days	

HYDROGEN PEROXIDE					
Product name & supplier	Species	Indication	Dosing	Limitations & comments	
35% PEROX-AID® Western Chemical, Inc. 1-800-283-5292	Freshwater-reared finfish eggs	Control of mortality due to saprolegniasis	 Coldwater and coolwater: 500 - 1,000 mg per L for 15 min in a continuous flow system once per day on consecutive or alternate days until hatch Warmwater: 750 - 1,000 mg per L for 15 min in a continuous flow system once per day on consecutive or alternate days until hatch 	 Initial bioassay on a small number of fish is recommended before treating the entire group 0-day withdrawal time 	
	Freshwater-reared salmonids	Control of mortality due to bacterial gill disease associated with Flavobacterium branchiophilum	100 mg per L for 30 min or 50 - 100 mg per L for 60 min once per day on alternate days for 3 treatments	 Initial bioassay on a small number of fish is recommended before treating the entire group 0-day withdrawal time 	
	Freshwater-reared coolwater finfish and channel catfish	Control of mortality due to external columnaris disease associated with <i>F. columnare</i>	 Fingerlings and adults: 50 - 75 mg per L for 60 min once per day on alternate days for 3 treatments Fry: 50 mg per L for 60 min once per day on alternate days for 3 treatments 	 Initial bioassay on a small number of fish is recommended before treating the entire group Should not be used to treat northern pike or paddlefish (any lifestage) or pallid sturgeon (fry) Use with caution on walleye 0-day withdrawal time 	

CHORIONIC GONADOTROPIN					
Product name & supplier	Species	Indication	Dosing	Limitations & comments	
CHORULON® Intervet Inc. 1-800-441-8272	Male and female brood finfish	Aid in improving spawning function	 50 - 510 IU per lb males 67 - 1,816 IU per lb females 	 Intramuscular injection Up to three doses. Total dosage not to exceed 25,000 IU in fish intended for human consumption Prescription product restricted to use by or on the order of a licensed veterinarian 0-day withdrawal time 	

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Product name & supplier	Species	Indication	Dosing	Limitations & comments
PARASITE-S Western Chemical, Inc. 1-800-283-5292	All finfish	Control of external protozoa (species of the genera Chilodonella, Costia, Epistylis, Ichthyophthirius, Scyphidia, and Trichodina) and monogenetic trematodes (species of the genera Cleidodiscus, Dactylogyrus, and	 Salmon & trout in tanks and raceways: Above 50°F: up to 170 μL per L for up to 1 hr Below 50°F: up to 250 μL per L for up to 1 hr All other finfish up to 250 μL per L for up to 1 hr Earthen ponds: 15 - 25 μL per L 	 Drug must not be subjected to temperatures below 40°F Do not apply to ponds when (1) water is warmer than 80°F, (2) there is a heavy phytoplankton bloom, or (3) dissolved oxygen is less than 5 mg per L Ponds may be retreated in 5 to 10 days if needed Do not treat ponds containing striped bass Test on a small number of fish from each lot to check for any unusual sensitivity to
FORMALIN-F		Gyrodactylus)	indefinitely	formalin before proceeding O-day withdrawal time
Natchez Animal Supply Co. 1-800-647-6760 FORMACIDE-B B.L. Mitchell, Inc. 1-800-817-5808	All finfish eggs	Control fungi of the family Saprolegniaceae	 All finfish eggs: 1,000 - 2,000 μL per L for 15 min Species of the order Acipenseriformes: up to 1,500 μL per L for 15 min 	 Preliminary bioassay should be conducted on a small number of fish to determine species sensitivity 0-day withdrawal time
	Penaeid shrimp	Control protozoan parasites (species of the genera <i>Bodo, Epistylis,</i> and <i>Zoothamnium</i>)	 Tanks and raceways: 50 - 100 µL per L for up to 4 hrs daily Earthen ponds: 25 µL per L as single treatment 	 Drug must not be subjected to temperatures below 40°F Do not apply to ponds when (1) water is warmer than 80°F, (2) there is a heavy phytoplankton bloom, or (3) dissolved oxygen is less than 5 mg per L Ponds may be retreated in 5 to 10 days if needed O-day withdrawal time
PARACIDE-F Argent Laboratories 1-800-426-6258	Salmon, trout, catfish, largemouth bass, and bluegill	Control external protozoa (species of the genera Chilodonella, Costia, Epistylis, Ichthyophthirius, Scyphidia, and Trichodina) and monogenetic trematodes (species of the genera Cleidodiscus, Dactylogyrus, and Gyrodactylus)	 Salmon & trout in tanks and raceways: Above 50°F: up to 170 μL per L for up to 1 hr Below 50°F: up to 250 μL per L for up to 1 hr Catfish, largemouth bass, and bluegill: up to 250 μL per L for up to 1 hr Earthen ponds: 15 - 25 μL per L indefinitely 	 Drug must not be subjected to temperatures below 40°F Do not apply to ponds when (1) water is warmer than 80°F, (2) there is a heavy phytoplankton bloom, or (3) dissolved oxygen is less than 5 mg per L Ponds may be retreated in 5 to 10 days if needed Do not treat ponds containing striped bass Test on a small number of fish from each lot to check for any unusual sensitivity to formalin before proceeding 0-day withdrawal time
	Salmon, trout, and esocid eggs	Control fungi of the family Saprolegniaceae	• 1,000 - 2,000 µL per L for 15 min	 Preliminary bioassay should be conducted on a small number of fish to determine species sensitivity 0-day withdrawal time

SULFADIMETHOXINE & ORMETOPRIM				
Product name & supplier	Species	Indication	Dosing	Limitations & comments
ROMET® 30 and ROMET® TC Aquatic Health Resources 1-877-280-2858	Salmonids	Control of furunculosis due to Aeromonas salmonicida	 50 mg per kg fish per day for 5 days 	In feed42-day withdrawal time
	Catfish	Control of enteric septicemia due to Edwardsiella ictaluri	50 mg per kg fish per day for 5 days	In feed3-day withdrawal time

- Disclaimer: Always refer to each product's label for specific instructions. It is the user's responsibility to read the MSDS for each product and comply with local NPDES requirements. Use of product names does not indicate endorsement by the U.S. Fish & Wildlife Service, the U.S. Food & Drug Administration, or the American Fisheries
- Veterinary Feed Directive (VFD) drug (e.g., Aquaflor®): Certain drugs that are intended for use in animal feeds. The use of VFD drugs is permitted only under the professional supervision of a licensed veterinarian. VFD drugs cannot be used under extra-label drug-use provisions.
- Prescription drugs (e.g., Chorulon®): Drugs that may be used only by, or on the order of, a licensed veterinarian.
- Extra-Label Use: The actual or intended use of an FDA-approved drug in a manner that is not in accordance with the approved label directions. Extra-label use is permitted only by, or on the order of, a licensed veterinarian when a valid veterinarian-clientpatient relationship exists.
- **FDA Information:** Please see the FDA/CVM website for additional information and new approvals (http://www.fda.gov/AnimalVeterinary). Contact FDA/CVM regarding any adverse drug events, including lack of effectiveness, with any approved drug (1-888-FDA-VETS).

Product name & supplier	Species	Indication	Dosing	Limitations comments
Oxytetracycline HCI Soluble Powder-343 Teva Animal Health 1-800-759-3664 PENNOX® 343 PennField Animal Health 1-800-832-8303 TETROXY® Aquatic Soluble Powder Bimeda 1-888-524-6332	Finfish fry and fingerlings	Mark skeletal tissues	• 200 - 700 mg oxytetracycline hydrochloride (buffered) per L of water for 2 - 6 hrs	• None

OXYTETRACYCLINE DIHYDRATE					
Product name & supplier	Species	Indication	Dosing	Limitations & comments	
	Pacific salmon	Mark skeletal tissue	250 mg per kg fish per day for 4 days	Salmon <30 g sizeIn feed as sole ration7-day withdrawal time	
	Salmonids	Control of ulcer disease (Hemophilus piscium), furunculosis (Aeromonas salmonicida), bacterial hemorrhagic septicemia (A. liquefaciens), and pseudomonas disease (Pseudomonas spp.)	• 2.5 - 3.75 g per 100 lbs fish per day for 10 days	In mixed ration21-day withdrawal timeNo temperature restriction on use	
TERRAMYCIN® 200 for Fish Phibro Animal Health 1-888-475-7355	Freshwater-reared salmonids	Control of mortality due to coldwater disease caused by Flavobacterium psychrophilum	3.75 g per 100 lbs fish per day for 10 days	In mixed ration21-day withdrawal timeNo temperature restriction on use	
	All freshwater- reared Oncorhynchus mykiss	Control of mortality due to columnaris disease (F. columnare)	3.75 g per 100 lbs fish per day for 10 days	In mixed ration21-day withdrawal timeNo temperature restriction on use	
	Catfish	Control of bacterial hemorrhagic septicemia (A. liquefaciens) and pseudomonas disease (Pseudomonas spp.)	• 2.5 - 3.75 g per 100 lbs fish per day for 10 days	 In mixed ration Water temperature not below 62°F (16.7°C) 21-day withdrawal time 	
	Lobster	Control of gaffkemia (Aerococcus viridians)	1 g per lb medicated feed for 5 days	In feed as sole ration30-day withdrawal time	

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Product name & supplier	Species	Indication	Dosing	Limitations & comments
FINQUEL Argent Laboratories 1-800-426-6258 TRICAINE-S Western Chemical, Inc. 1-800-283-5292	Fish (of the families Ictaluridae, Salmonidae, Esocidae and Percidae), aquatic amphibians, and other aquatic poikilotherms	Temporary immobilization	 Fish: 15 - 330 mg per L Other poikilotherms: 1:1,000 - 1:20,000 	 Powder is added to water Concentration depends upon desired degree of anesthesia, species, size, water temperature and softness, and stage of development Preliminary tests of solution should be made with a few fish 21-day withdrawal time (fish) Laboratory or hatchery use only in other poikilotherms - water temperature over 50°F

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